

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P529632

Luminaire Tested: **GALN-SA4D-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27614 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

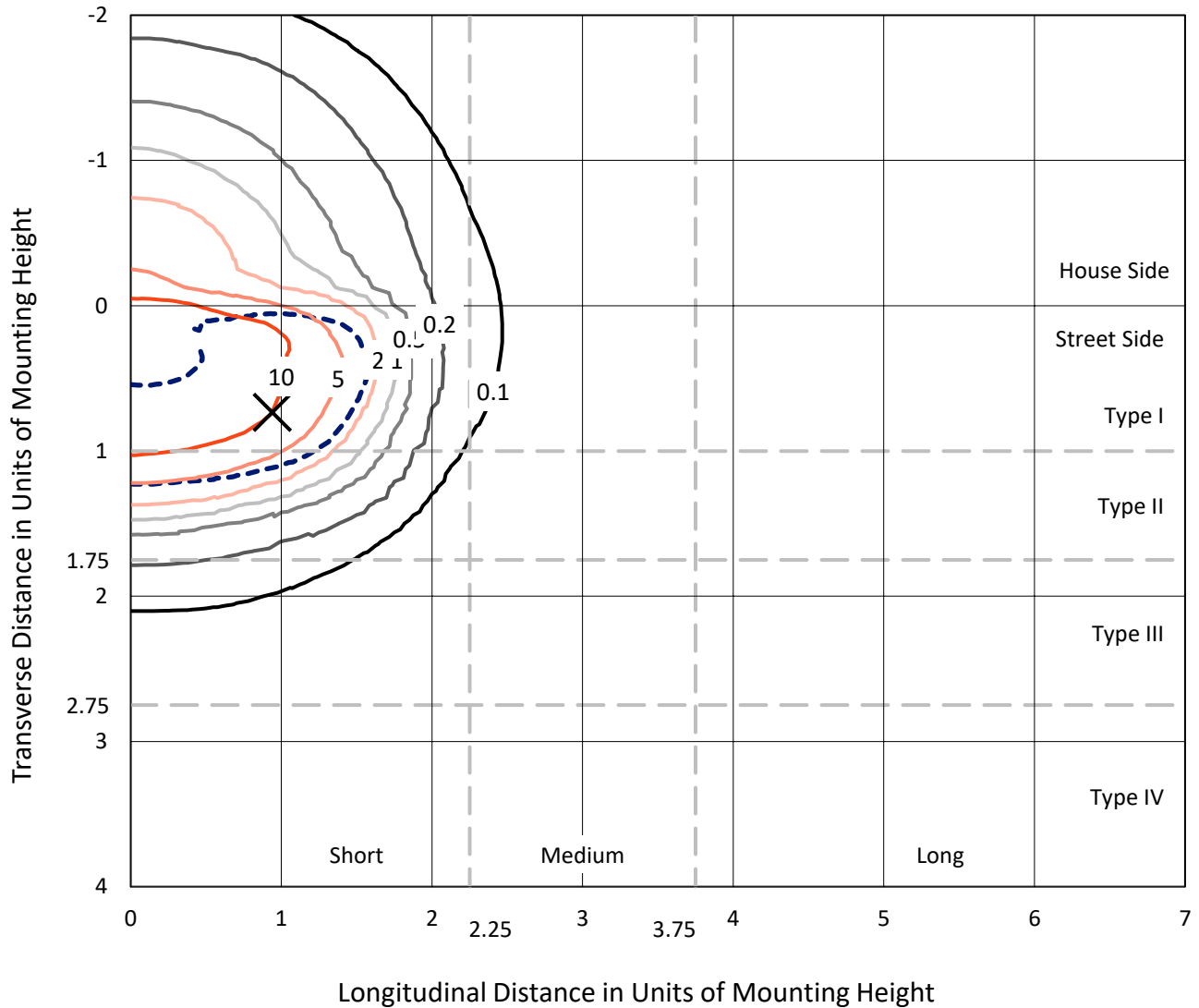
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

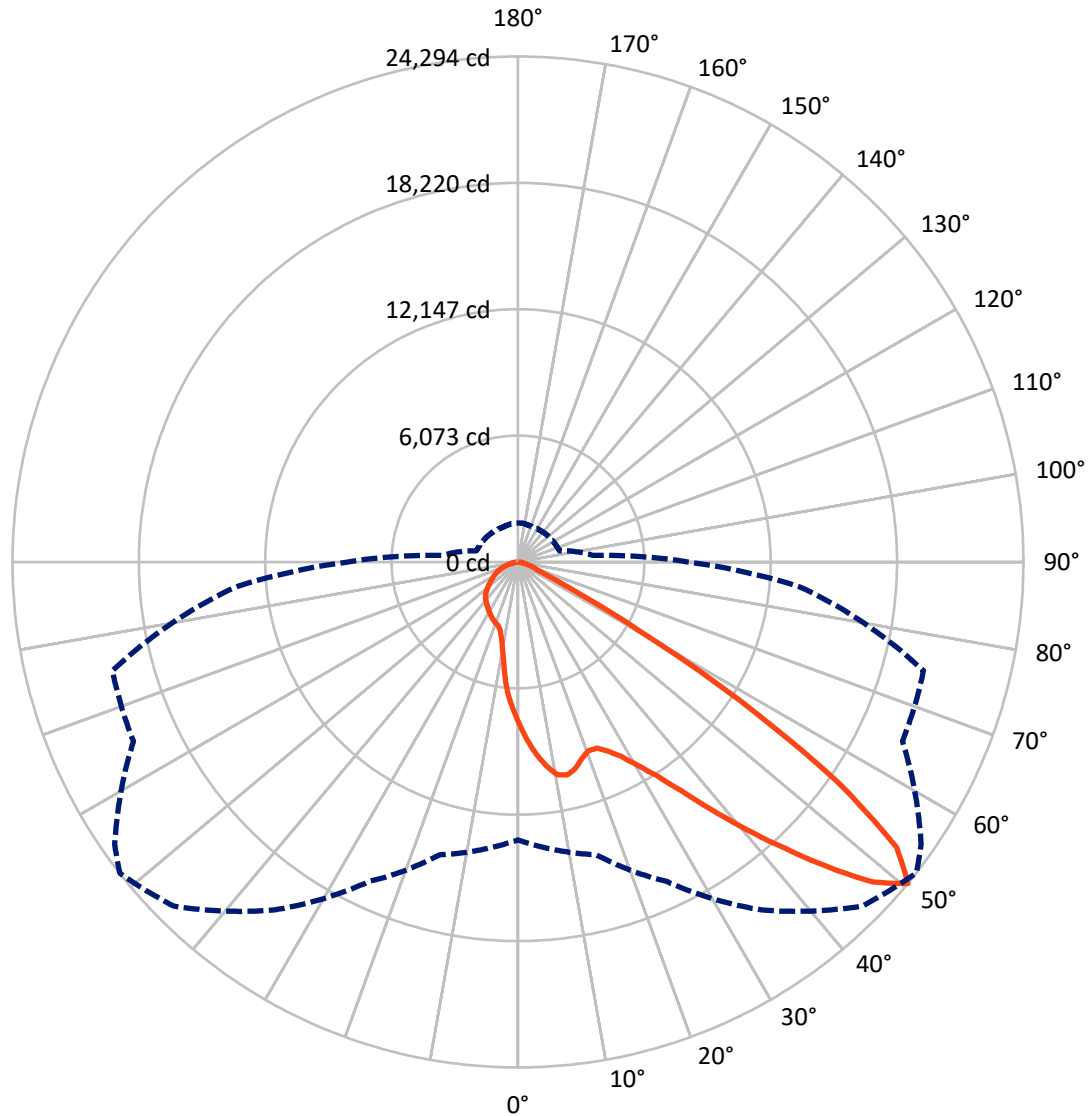
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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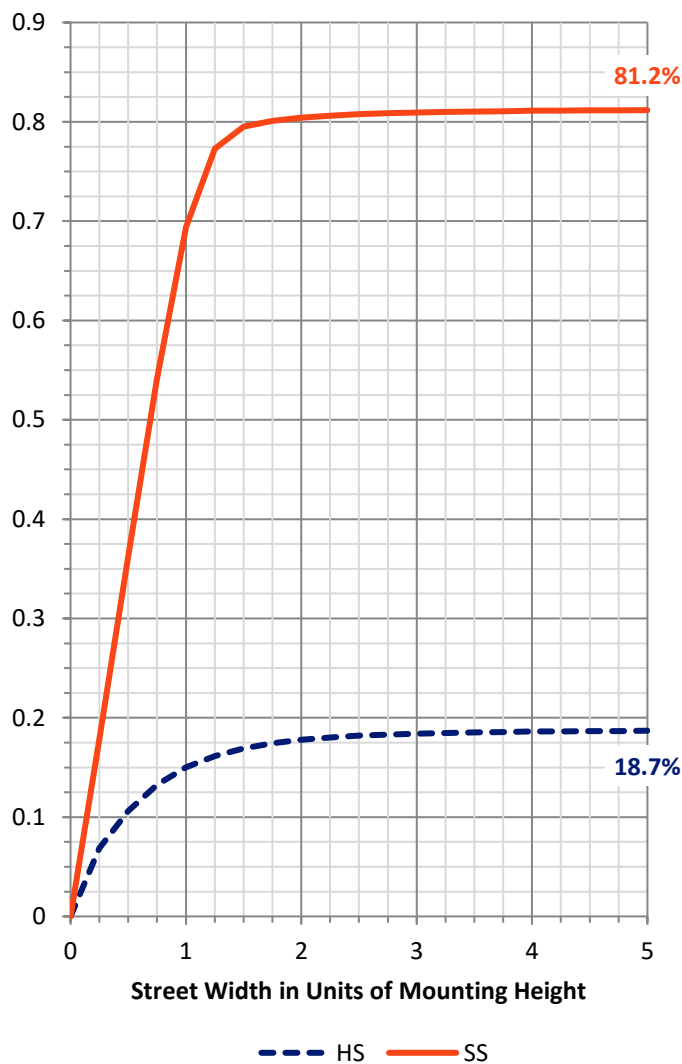
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5190.8	0.0	5190.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22423.2	0.0	22423.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	27614.0	0.0	27614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.4	2.6
10°-20°	1922.9	7.0
20°-30°	3239.1	11.7
30°-40°	5435.5	19.7
40°-50°	8314.9	30.1
50°-60°	6062.2	22.0
60°-70°	1349.1	4.9
70°-80°	486.6	1.8
80°-90°	86.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	27614.0	100.0
0°-180°	27614.0	100.0

Coefficient of Utilization



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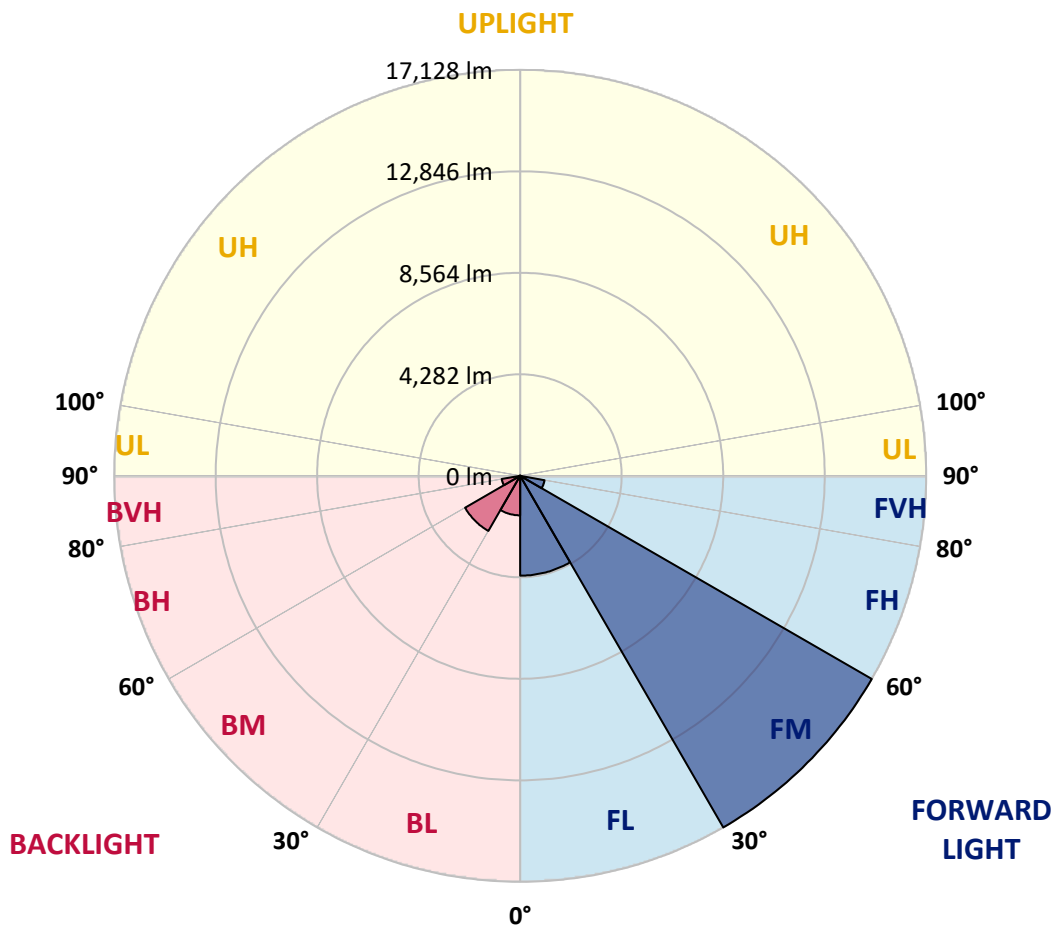
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4212.1	15.3			
FM (30°-60°)	17127.6	62.0			
FH (60°-80°)	1044.9	3.8			G1/1800
FVH (80°-90°)	38.6	0.1			G1/100
BL (0°-30°)	1667.4	6.0	B3/2500		
BM (30°-60°)	2685.0	9.7	B3/5000		
BH (60°-80°)	790.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	47.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9
2.5°	9165.0	8988.6	9008.6	8882.1	8745.7	8705.8	8566.0	8432.9	8333.0	8120.0	7923.7
5°	10016.9	9963.7	9883.8	9784.0	9680.8	9427.9	9284.8	9118.4	8752.3	8422.9	8096.8
7.5°	10140.1	10130.1	10173.4	10173.4	10210.0	10113.5	9910.4	9794.0	9404.6	8868.8	8263.1
10°	9274.8	9304.8	9514.4	9787.3	10166.7	10429.6	10396.3	10366.4	9940.4	9208.3	8459.5
12.5°	8585.9	8519.4	8642.5	8875.5	9444.5	10080.2	10509.5	10512.8	10403.0	9750.7	8602.6
15°	8196.6	8243.2	8276.5	8386.3	8815.6	9551.0	10306.5	10529.4	11012.0	10133.4	8828.9
17.5°	8446.2	8289.8	8283.1	8309.7	8529.4	9081.8	9930.4	10313.1	11344.8	10625.9	9108.4
20°	8772.3	8769.0	8675.8	8642.5	8639.2	9131.7	9684.2	10203.3	11521.1	11264.9	9391.3
22.5°	9344.7	9344.7	9191.6	9118.4	8962.0	9364.7	9717.4	10070.2	11814.0	11704.2	9527.7
25°	10303.1	10146.7	9883.8	9704.1	9614.3	9757.4	10070.2	10386.3	12070.2	12170.1	9810.6
27.5°	11188.4	10942.1	10812.3	10502.8	10383.0	10299.8	10586.0	10905.5	12369.8	12895.6	9963.7
30°	12193.4	12150.1	11917.2	11517.8	11221.6	11068.6	11331.5	11647.6	12918.9	13637.7	10316.5
32.5°	13990.4	13597.7	13281.6	12792.4	12309.9	11983.7	12243.3	12453.0	13830.7	14413.1	10702.5
35°	15930.6	15804.1	15258.4	14376.5	13637.7	13344.8	13497.9	13654.3	14892.3	15597.8	11351.4
37.5°	17837.5	17664.4	17215.2	16473.0	15574.5	14978.8	15088.6	15271.7	16083.7	17195.2	12143.5
40°	19208.6	18995.6	18769.3	18659.5	17767.6	16952.3	16889.0	16935.6	17694.4	18692.7	13022.0
42.5°	19308.4	19571.3	19641.2	20083.8	19874.1	19205.2	18815.9	18825.9	19231.9	20173.7	13910.6
45°	19098.7	18855.8	19371.6	20579.7	21271.9	21584.7	20929.1	20845.9	20183.6	21032.2	14353.2
47.5°	16899.0	16965.6	17837.5	19747.7	21747.7	23145.5	22992.4	22716.2	20692.8	21002.3	14283.3
50°	13358.1	13760.8	14569.5	16948.9	20416.6	23391.7	24293.6	23654.6	20390.0	20177.0	13571.1
52.5°	8895.4	9061.8	9594.3	12665.9	16416.5	20909.1	22796.0	22942.5	20110.4	19095.4	12669.3
55°	3960.2	3946.9	4695.6	6615.8	10299.8	15910.6	18626.2	19518.1	19035.5	17993.9	11790.7
57.5°	1677.3	1733.8	2040.0	2858.7	5065.0	9601.0	12619.3	13401.4	14639.4	14775.8	9045.2
60°	1134.8	1141.5	1224.7	1431.0	2119.9	4509.3	6619.2	7557.6	8442.9	8382.9	4798.8
62.5°	891.9	915.2	978.4	1061.6	1257.9	2046.7	2961.8	3484.3	3540.9	2978.5	1820.4
65°	762.1	765.4	828.6	898.5	985.1	1191.4	1427.7	1454.3	1470.9	1417.7	1337.8
67.5°	629.0	635.6	685.5	765.4	845.3	911.8	978.4	1011.7	1088.2	1238.0	1218.0
70°	499.2	509.2	552.4	619.0	692.2	732.1	815.3	845.3	915.2	1031.6	1078.2
72.5°	379.4	382.7	419.3	465.9	532.5	572.4	642.3	675.6	722.2	822.0	865.3
75°	272.9	282.9	309.5	332.8	342.8	369.4	436.0	472.6	539.1	582.4	585.7
77.5°	143.1	149.8	156.4	156.4	189.7	239.6	282.9	302.8	349.4	382.7	366.1
80°	56.6	59.9	76.5	103.2	133.1	173.1	203.0	213.0	252.9	272.9	282.9
82.5°	33.3	36.6	49.9	73.2	96.5	123.1	146.4	156.4	183.0	206.3	213.0
85°	16.6	20.0	30.0	46.6	63.2	76.5	73.2	69.9	69.9	66.6	69.9
87.5°	6.7	6.7	10.0	10.0	10.0	13.3	16.6	16.6	16.6	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9	7783.9
2.5°	7793.9	7660.8	7537.7	7311.4	7065.1	6995.2	6709.0	6605.9	6532.6	6446.1	6419.5
5°	7833.8	7657.5	7261.5	6805.5	6442.8	5976.9	5670.7	5341.3	5101.7	5041.7	5025.1
7.5°	7917.0	7614.2	6932.0	6243.1	5501.0	4868.7	4386.2	4126.6	3897.0	3883.6	3860.3
10°	8010.2	7484.4	6572.6	5491.0	4542.6	3956.9	3667.3	3554.2	3497.6	3484.3	3477.6
12.5°	8086.8	7457.8	6169.9	4758.9	3863.7	3510.9	3424.4	3414.4	3437.7	3444.4	3457.7
15°	8120.0	7351.3	5684.0	4103.3	3441.0	3311.2	3347.9	3387.8	3404.4	3447.7	3414.4
17.5°	8183.3	7214.9	5085.0	3584.1	3204.8	3228.1	3291.3	3337.9	3364.5	3394.4	3351.2
20°	8216.6	7091.7	4522.6	3274.6	3121.6	3164.8	3251.3	3288.0	3321.2	3334.5	3284.6
22.5°	8186.6	6838.8	4026.7	3025.0	3041.7	3098.3	3174.8	3214.7	3194.8	3141.5	3111.6
25°	8106.7	6482.7	3510.9	2865.3	2928.5	3028.4	3088.3	3058.3	3021.7	2991.8	2981.8
27.5°	8103.4	6046.8	3138.2	2718.9	2832.0	2968.5	2948.5	2921.9	2938.5	2915.2	2888.6
30°	8120.0	5624.1	2832.0	2635.7	2762.1	2828.7	2852.0	2825.4	2845.3	2802.1	2815.4
32.5°	8033.5	5211.5	2632.4	2539.2	2678.9	2675.6	2752.2	2772.1	2725.5	2635.7	2649.0
35°	8070.1	4878.7	2462.6	2495.9	2585.8	2585.8	2645.7	2622.4	2499.2	2446.0	2459.3
37.5°	8323.0	4552.6	2379.4	2436.0	2495.9	2522.5	2502.6	2402.7	2372.8	2372.8	2379.4
40°	8562.7	4273.0	2329.5	2422.7	2412.7	2429.4	2282.9	2292.9	2292.9	2296.2	2279.6
42.5°	8775.6	4083.3	2289.6	2342.8	2359.5	2272.9	2183.1	2173.1	2196.4	2193.1	2179.8
45°	8852.2	3926.9	2233.0	2253.0	2266.3	2123.2	2079.9	2060.0	2086.6	2096.6	2109.9
47.5°	8559.3	3797.1	2169.8	2129.8	2103.2	2010.0	1953.5	1916.9	1950.1	2006.7	2020.0
50°	8183.3	3627.4	2069.9	1993.4	1936.8	1896.9	1857.0	1820.4	1843.6	1883.6	1873.6
52.5°	7627.5	3361.2	1943.5	1863.6	1767.1	1777.1	1740.5	1720.5	1733.8	1733.8	1723.8
55°	6835.5	2762.1	1730.5	1673.9	1594.1	1620.7	1627.3	1600.7	1574.1	1597.4	1577.4
57.5°	4665.7	1950.1	1544.1	1544.1	1464.3	1500.9	1497.5	1434.3	1371.1	1377.7	1364.4
60°	2698.9	1554.1	1424.3	1411.0	1327.8	1357.8	1364.4	1321.2	1224.7	1231.3	1218.0
62.5°	1534.2	1327.8	1244.6	1224.7	1208.0	1234.6	1234.6	1178.1	1094.9	1101.5	1088.2
65°	1304.5	1231.3	1111.5	1108.2	1101.5	1108.2	1081.6	1021.7	948.4	918.5	921.8
67.5°	1184.7	1138.1	1021.7	991.7	971.7	968.4	918.5	861.9	828.6	802.0	798.7
70°	1038.3	1001.7	915.2	875.2	855.3	808.7	758.8	722.2	675.6	662.2	675.6
72.5°	822.0	818.7	785.4	742.1	698.9	662.2	619.0	569.1	525.8	515.8	492.5
75°	569.1	575.7	582.4	575.7	539.1	492.5	442.6	402.7	349.4	319.5	312.8
77.5°	372.7	382.7	392.7	379.4	356.1	312.8	279.5	229.6	189.7	166.4	163.1
80°	272.9	286.2	292.9	282.9	256.2	223.0	186.4	146.4	116.5	96.5	96.5
82.5°	209.7	223.0	229.6	213.0	186.4	159.7	133.1	103.2	79.9	63.2	59.9
85°	73.2	69.9	83.2	86.5	103.2	96.5	79.9	59.9	46.6	33.3	30.0
87.5°	20.0	20.0	23.3	23.3	20.0	16.6	16.6	16.6	13.3	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)